

Appl. No. 10/617,469  
Amdt. Dated 06/28/2006  
Reply to Office Action of May 31, 2006

### **REMARKS/ARGUMENTS**

In response to the final office action, claims 1-12 have been canceled and new claims 28-43 have been added.

In the outstanding office action, claims 25-27 have been allowed, for which the undersigned thanks the examiner. By way of this amendment, additional dependent claims directly or indirectly dependent on allowed claim 25 have been added, as well as a new independent claim and related dependent claims.

First with respect to the new dependent claims directly or indirectly dependent on claim 25, claims 28 through 31 add limitations clearly shown in Figure 4. Claim 32 adds a limitation found for instance, in paragraph 0043, as well as elsewhere in the disclosure.

With respect to new independent claim 33, this claim is substantially identical to allowed claim 25 with three exceptions. In particular, claim 25 is limited to a receiver, while new claim 33 is directed to a radio, which may be a receiver or a transmitter (both were previously claimed in claims canceled herein – see canceled claims 10 and 17). Also claim 25 is limited to a mixer to down convert, while new claim 33 is broad enough to cover down conversion as well as up conversion, as discussed in the application, such as in paragraphs 0029 and 0041 (see also paragraph 0043). Finally in claim 25, the mixer down converts an RF signal, while the signal frequency converted in new claim 33 is identified simply as a signal. For instance, in a transmitter, the output of the mixer may be an RF signal, not the input to the mixer.

Dependent claim 34 limits the radio to a transmitter (see cancelled claim 17). Claim 35 is similar to new claim 32. Claims 36 and 37 simply limit the mixer to up convert and to down convert, respectively (see for instance paragraph 0043). Claims 38 and 39 correspond to prior claims 26 and 27, and claims 40-43 add limitations clearly shown in Figures 4 and 6.

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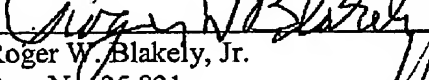
**CONCLUSION**

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

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